

AMENDMENTS TO THE CLAIMS

1-12. (Cancelled)

13. (Previously Presented) A method for sending a feedback message for an automatic repeat request, comprising:

estimating a last block sequence number of successive blocks that are successfully received, to record the estimated last block sequence number in a first field;

estimating a number of groups of successive blocks that are successfully received after the last block sequence number as a number of ACKnowledgement (ACK) maps to record in a second field;

recording a start block sequence number of each of the ACK maps in a third field of each of the ACK maps;

estimating a number of successive blocks that are successfully received after the start block sequence number of each of the ACK maps, to record the estimated number of successive blocks in a fourth field of each of the ACK maps; and

sending a feedback message including fields from the first field to the fourth field.

14. (Previously Presented) The method of claim 13, further comprising recording an ACK type in a fifth field, and

wherein the feedback message further includes the fifth field.

15. (Previously Presented) The method of claim 14, wherein the ACK type indicates one of a selective ACK type, a cumulative ACK type, a cumulative-selective ACK type, and a cumulative-bulk ACK type, and wherein, if the ACK type is the cumulative-bulk ACK type, recording the start block sequence number and estimating lengths of the groups.

16. (Previously Presented) A method for sending a feedback message for an automatic repeat request, comprising:

estimating a last block sequence number of successive blocks that are successfully received, to record the estimated last block sequence number in a first field;

recording, in a second field, types of groups of successive blocks that are successfully or unsuccessfully received after the last block sequence number;

estimating lengths of the groups to record the estimated lengths of the groups in a third field; and

sending a feedback message including fields from the first field to the third field.

17. (Previously Presented) The method of claim 16, further comprising recording an ACK type in a fourth field, wherein the feedback message further includes the fourth field.

18. (Previously Presented) The method of claim 17, wherein the ACK type indicates one of a selective ACK type, a cumulative ACK type, a cumulative-selective ACK type, and a cumulative-bulk ACK type, and wherein, if the ACK type is the cumulative-bulk ACK type, recording the types of the groups and estimating lengths of the groups

19. (Previously Presented) A method for sending a feedback message for an automatic repeat request, comprising:

recording an ACK type in a first field, wherein the ACK type indicates one of a selective ACK type, a cumulative ACK type, a cumulative-selective ACK type, and a cumulative-bulk ACK type;

estimating a last block sequence number of successive blocks that are successfully received, to record the estimated last block sequence number in a second field;

estimating a number of ACK maps to record the estimated number of the ACK maps in a third field;

if the ACK type is the cumulative-bulk ACK type, recording, in a fourth field of each of the ACK maps, types of the groups of successive blocks that are successfully or unsuccessfully received after the last block sequence number, wherein the types of the groups indicate one of an ACK type and a Negative ACKnowledgement (NACK) type and estimating lengths of the groups for each of the ACK maps, to record the estimated lengths of the groups in a fifth field of each of the ACK maps; and

sending a feedback message including fields from the first field to the fifth field.

20. (Previously Presented) A method for sending a feedback message for an automatic repeat request, comprising:

estimating a last block sequence number of successive blocks that are successfully received, to record the estimated last block sequence number in a first field;

estimating a number of groups of successive blocks that are successfully or unsuccessfully received after the last block sequence number, to record the estimated number of groups in a second field;

estimating lengths of the groups to record the estimated lengths of the groups in a third field; and

sending a feedback message including fields from the first field to the third field.

21. (Previously Presented) The method of claim 20, further comprising recording types of the groups in a fourth field, wherein the feedback message further includes the fourth field.

22. (Previously Presented) The method of claim 21, further comprising recording an ACK type in a fifth field, wherein the feedback message further includes the fifth field.

23. (Previously Presented) The method of claim 22, wherein the ACK type indicates one of a selective ACK type, a cumulative ACK type, a cumulative-selective ACK type, and a cumulative-bulk ACK type, and wherein, if the ACK type is the cumulative-bulk ACK type, estimating a number of the groups, recording the types of the groups, and estimating the lengths of the groups to record the estimated lengths of the groups.

24. (Previously Presented) The method of claim 23, wherein the types of the groups indicate one of an ACK type and a NACK type.

25. (Previously Presented) A method for sending a feedback message for an automatic repeat request, comprising:

recording an ACK type in a first field, wherein the ACK type indicates one of a selective ACK type, a cumulative ACK type, a cumulative-selective ACK type, and a cumulative-bulk ACK type;

estimating a last block sequence number of successive blocks that are successfully received, to record the last block sequence number in a second field;

estimating a number of ACK maps to record the estimated number of the ACK maps in a third field;

if the ACK type is the cumulative-bulk ACK type, estimating a number of groups of successive blocks that are successfully or unsuccessfully received after the last block sequence number, to record information on the estimated number of groups for each of the ACK maps in a fourth field of each of the ACK maps, recording types of the groups for each of the ACK maps in a fifth field of each of the ACK maps, wherein the types of the groups indicates one of an ACK type and a NACK type, estimating lengths of the groups for each of the ACK maps, to record the estimated lengths of the groups in a sixth field of each of the ACK maps; and

sending a feedback message including fields from the first field to the sixth field.

26-32. (Cancelled)